

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Confirmation No. 1541
WOLFFE et al.
Serial No.: 10/083,682 Group Art Unit: 1645
Filing Date: October 24, 2001 Examiner: Unassigned
Title: DATABASES OF REGULATORY SEQUENCES; METHODS OF MAKING AND
USING SAME

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INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Some of the information listed below was cited in an International (PCT) Search Report dated April 2, 2002, in a PCT application corresponding to the above-identified U.S. application. A copy of the Search Report, including an indication of the purported relevance of the cited documents, is enclosed herewith. PCT publication No. WO 00/31294 corresponds to German DE 198 53 398C1 and is cited to provide an English language copy of the abstract. Copies of the information not previously cited to the Examiner, and a completed PTO-1449 form, are also submitted herewith. The Examiner is requested to make this information of official record in the application.

This Information Disclosure Statement under 37 CFR § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

Respectfully submitted,

Date: August 5, 2002

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TRANSMITTAL LETTER

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is an Information Disclosure Statement, including a Form PTO-1449 and copies of the cited references. It is believed that no fee is due.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 which may be required by this paper, or to credit any overpayment, to Deposit Account No. 18-1648.

Respectfully submitted,

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(Use several sheets if necessary)
Sheet 1 of 11

In the Application of WOLFFE et al.

Confirmation No. 1541

Serial No.: 10/083,682

Art Unit:1645

Filed: October 24, 2001

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Title: DATABASES OF REGULATORY SEQUENCES; METHODS OF MAKING AND USING SAME

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
	AA-1	5,176,996	January 5, 1993	Hogan et al.			
	AB-1	5,422,251	June 6, 1995	Fresco			
	AC-1	5,436,142	July 25, 1995	Wigler et al.			
	AD-1	5,501,964	March 26, 1996	Wigler et al.			
	AE-1	5,525,471	June 11, 1996	Zeng			
	AF-1	5,585,245	December 17, 1996	Johnsson et al.			
	AG-1	5,695,937	December 9, 1997	Kinzler et al.			
	AH-1	5,766,891	June 16, 1998	Shuman			
	AI-1	5,789,538	August 4, 1998	Rebar et al.			
	AJ-1	5,866,330	February 2, 1999	Kinzler et al.			
	AK-1	5,935,830	August 10, 1999	Meyer, Jr., et al.			
	AL-1	5,958,738	September 28, 1999	Lindemann et al.			
	AM-1	5,998,140	December 7, 1999	Dervan et al.			
	AN-1	6,007,988	December 28, 1999	Choo et al.			
	AO-1	6,013,453	January 11, 2000	Choo et al.			
	AP-1	6,023,659	February 8, 2000	Seihamer et al.			

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	AQ-1	6,090,947	July 18, 2000	Dervan et al.			
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FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES NO	
	AR-1	WO 93/06121	April 1, 1993	PCT				
	AS-1	WO 94/08051	April 14, 1994	PCT				
	AT-1	WO 95/12608	May 11, 1995	PCT				
	AU-1	WO 95/19431	July 20, 1995	PCT				
	AV-1	WO 95/30642	November 16, 1995	PCT				
	AW-1	WO 95/35503	December 28, 1995	PCT				
	AX-1	WO 98/44350	October 8, 1998	PCT				
	AY-1	WO 98/53057	November 26, 1998	PCT				
	AZ-1	WO 98/53058	November 26, 1998	PCT				
	BA-1	WO 98/53059	November 26, 1998	PCT				
	BB-1	WO 98/53060	November 26, 1998	PCT				
	BC-1	WO 98/54311	December 3, 1998	PCT				
	BD-1	WO 99/45132	September 10, 1999	PCT				
	BE-1	WO 99/47656	September 23, 1999	PCT				

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	BF-1	WO 99/48909	September 30, 1999	PCT				
	BG-1	WO 00/23464	April 27, 2000	PCT				
	BH-1	WO 00/41566	July 20, 2000	PCT				
	BI-1	WO 00/42219	July 20, 2000	PCT				
	BJ-1	WO 01/68807	September 20, 2001	PCT				
	BK-1	DE 198 53 398C1	March 16, 2000	EPO				
	BL-1	WO 00/31294	June 2, 2000	PCT				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
	BM-1	Altschul et al., "Basic Local Alignment Search Tool," <i>Journal Molecular Biol.</i> <u>215</u> :403-410 (1990)
	BN-1	Antequera et al., "Specific Protection of Methylated CpGs In Mammalian Nuclei," <i>Cell</i> <u>58</u> :509-517 (1989)
	BO-1	Bird, "The Essentials of DNA Methylation," <i>Cell</i> <u>70</u> :5-8 (1992)
	BP-1	Bird et al., "Methylation-Induced Repression Belts, Braces, and Chromatin," <i>Cell</i> <u>99</u> :451-454 (1999)

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Exam. Init.	Ref. Desig.	Description
	BQ-1	Bird, A.P., "CPG Rich Islands and the Function of DNA Methylation," <i>Nature</i> <u>321</u> : 209-213 (1986)
	BR-1	Bitko & Barik, "Persistent Activation of Re1A by Respiratory Syncytial Virus Involves Protein Kinase C, Underphosphorylated I κ B β , and Sequestration of Protein Phosphatase 2A by the Viral Phosphoprotein," <i>Journal of Virology</i> <u>72</u> (7):5610-5618 (1998)
	BS-1	Bringmann et al., "Antibodies Specific for <i>N</i> ⁶ -Methyladenosine React with Intact snRNPs U2 and U4/U6," <i>FEBS Lett.</i> <u>213</u> (2):309-315 (1987)
	BT-1	Brown, (ed.) <i>Essential Molecular Biology: A Practical Approach</i> , IRL Press, Vol. 1:147-148 (1991)
	BU-1	Cartwright et al., "Cleavage of Chromatin with Methidiumpropyl-EDTA-iron(II)," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>80</u> :3213-3217 (1983)
	BV-1	Chern et al., "The Regulator of MAT2(ROM2) Proteins Binds to Early Maturation Promoters and Represses PvALF-Activated Transcription," <i>Plant Cell</i> <u>8</u> :305-321 (1996)
	BW-1	Cho et al., "Analysis of the C-Terminal Region of <i>Arabidopsis Thaliana</i> APETALA1 as a Transcription Activation Domain," <i>Plant Mol. Biol.</i> <u>40</u> :419-429 (1999)
	BX-1	Choo et al., "Selection of DNA Binding Sites for Zinc Fingers Using Rationally Randomized DNA Reveals Coded Interactions," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>91</u> :11168-11172 (1994)
	BY-1	Collingwood et al., "Nuclear Receptors: Coactivators, Corepressors and Chromatin Remodeling in the Control of Transcription," <i>J. Mol. Endocrinol.</i> <u>23</u> :255-275 (1999)
	BZ-1	Cross et al., "Purification of CPG Islands Using a Methylated DNA Binding Column," <i>Nature Genetics</i> <u>6</u> (3):236-244 (1994)

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Exam. Init.	Ref. Desig.	Description
	CA-1	Doyle & Hunt, "Reduced Nuclear Factor κB (65) Expression in Rat Primary Sensory Neurons After Peripheral Nerve Injury," <i>Neuroreport</i> <u>8</u> :2937-2942 (1997)
	CB-1	Fields et al., "A Novel Genetic System to Detect Protein-Protein Interactions," <i>Nature</i> <u>340</u> :245-246 (1989)
	CC-1	Frommer & Starlinger, "Dnase I Hypersensitive Sites in the 5'-Region of the Maize <i>Shrunken</i> Gene in Nuclei from Different Organs," <i>Mol. Gen. Genet.</i> <u>212</u> :351-359 (1988)
	CD-1	Gilmour et al., "Detecting Protein-DNA Interactions <i>in vivo</i> : Distribution of RNA Polymerase on Specific Bacterial Genes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>81</u> :4275-4279 (1984)
	CE-1	Goff et al., "Identification of Functional Domains in the Maize Transcriptional Activator C1: Comparison of Wild-Type and Dominant Inhibitor Proteins," <i>Genes Dev.</i> <u>5</u> :298-309 (1991)
	CF-1	Gong et al., "A Constitutively Expressed Myc-Like Gene Involved in Anthocyanin Biosynthesis from <i>Perilla frutescens</i> : Molecular Characterization, Heterologous Expression in Transgenic Plants and Transactivation in Yeast Cells," <i>Plant Molecular Biology</i> <u>41</u> :33-44 (1999)
	CG-1	Greene et al., "Sequence of the Bacteriophage SP01 Gene Coding for Transcription Factor 1, a Viral Homologue of the Bacterial Type II DNA-Binding Proteins," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>81</u> :7031-7035 (1984)
	CH-1	Gross & Garrard, "Nuclease Hypersensitive Sites in Chromatin," <i>Annual Review of Biochemistry</i> <u>57</u> :159-197 (1988)
	CI-1	Greisman et al., "A General Strategy for Selecting High-Affinity Zinc Finger Proteins for Diverse DNA Target Sites," <i>Science</i> <u>275</u> :657-661 (1997)

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	CJ-1	Hagmann et al., "The VP16 Paradox: Herpes Simplex Virus VP16 Contains a Long-Range Activation Domain but Within the Natural Multiprotein Complex Activates Only from Promoter-Proximal Positions," <i>Journal of Virology</i> <u>71</u> (8):5952-5962 (1997)
	CK-1	Hayes, "Chemical Probes of DNA Structure in Chromatin," <i>Chemistry & Biology</i> <u>2</u> :127-135 (1995)
	CL-1	Hendrich et al., "Identification and Characterization of a Family of Mammalian Methyl-CpG Binding Proteins," <i>Molecular and Cellular Biology</i> <u>18</u> (11):6538-6547 (1998)
	CM-1	Hertzberg et al., "Cleavage of DNA with Methidiumpropyl-EDTA-Iron(III): Reaction Conditions and Product Analyses," <i>Biochemistry</i> <u>23</u> :3934-3945 (1984)
	CN-1	Hibino et al., "Involvement of DNA Methylation in Binding of a Highly Reptitive DNA Component to Nuclear Scaffold Proteins from Rat Liver," <i>Biochemical and Biophysical Research Communications</i> <u>252</u> :296-301 (1998)
	CO-1	Hobo et al., "A bZIP Factor, TRAB1, Interacts with VP1 and Mediates Absciscic Acid-Induced Transcription," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>96</u> (26):15348-15353 (1999)
	CP-1	Hoopes et al., "Studies on the Selectivity of DNA Precipitation by Spermine," <i>Nucleic Acids Res.</i> <u>9</u> (20):5493-5504 (1981)
	CQ-1	Iyer et al., "The Transcriptional Program in the Response of Human Fibroblasts to Serum," <i>Science</i> <u>283</u> :83-87 (1999)
	CR-1	Jamieson et al., "In Vitro Selection of Zinc Fingers with Altered DNA-Binding Specificity," <i>Biochemistry</i> <u>33</u> (19):5689-5695 (1994)
	CS-1	Jamieson et al., "A Zinc Finger Directory for High-Affinity DNA Recognition," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>93</u> :12834-12839 (1996)

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Exam. Init.	Ref. Desig.	Description
	CT-1	Jones et al., "Cancer Epigenetics Comes of Age," <i>Nature Genet.</i> <u>21</u> :163-167 (1999)
	CU-1	Joung et al., "A Bacterial Two-Hybrid Selection System for Studying Protein-DNA and Protein-Protein Interactions," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>97</u> :7382-7387 (2000)
	CV-1	Kimura et al., "On the DNA Binding Protein II From <i>Bacillus Stearotherophilus</i> ," <i>The Journal of Biological Chemistry</i> <u>258</u> (6):4007-4011 (1983)
	CW-1	Kladde et al., "Direct Study of DNA-Protein Interactions in Repressed and Active Chromatin in Living Cells," <i>EMBO J.</i> <u>15</u> (22):6290-6300 (1996)
	CX-1	Knoepfler et al., "Sin Meets NuRD and Other Tails of Repression," <i>Cell</i> <u>99</u> :447-450 (1999)
	CY-1	Lemon et al., "Nuclear Receptor Cofactors as Chromatin Remodelers," <i>Curr. Opin. Genet. Dev.</i> <u>9</u> :499-504 (1999)
	CZ-1	Leo et al., "The SRC Family of Nuclear Receptor Coactivators," <i>Gene</i> <u>245</u> :1-11 (2000)
	DA-1	Lewin, <i>Genes VII</i> , Oxford University Press, Chapter 4 (page 106) and Chapter 21 (pp 668 & 678) (2000)
	DB-1	Linder et al., "Pharmacogenetics: a Laboratory Tool for Optimizing Therapeutic Efficiency," <i>Clinical Chemistry</i> <u>43</u> (2):254-266 (1997)
	DC-1	Maemura et al., "Generation of a Dominant-negative Mutant of Endothelial PAS Domain Protein 1 by Deletion of a Potent C-terminal Transactivation Domain," <i>The Journal Biological Chemistry</i> <u>274</u> (44):31565-31570 (1999)
	DD-1	Malik et al., "Transcriptional Regulation Through Mediator-like Coactivators in Yeast and Metazoan Cells," <i>Trends Biochem. Sci.</i> <u>25</u> :277-283 (2000)

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	DE-1	Manteuffel-Cymborowska, "Nuclear Receptors, Their Coactivators and Modulation of Transcription," <i>Acta Biochim. Pol.</i> <u>46</u> (1):77-89 (1999)
	DF-1	Margolin et al., "Krüppel-Associated Boxes are Potent Transcriptional Repression Domains," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>91</u> :4509-4513 (1994)
	DG-1	Maxam et al., "Sequencing End-Labeled DNA With Base-Specific Chemical Cleavages," <i>Meth. Enzymology</i> <u>65</u> , (L. Grossman & K. Moldave, eds.) Academic Press, New York, pp. 499-560 (1980)
	DH-1	McKenna et al., "Nuclear Receptor Coactivators: Multiple Enzymes, Multiple Complexes, Multiple Functions," <i>Journal of Steroid Biochemistry and Molecular Biology</i> <u>69</u> :3-12 (1999)
	DI-1	Meyer, P., "Transcriptional Transgene Silencing and Chromatin Components," <i>Plant Molecular Biology</i> <u>43</u> :221-234 (2000)
	DJ-1	Ogawa et al., "Rice Gibberellin-Insensitive Gene Homolog, <i>OsGAI</i> , Encodes a Nuclear-Localized Protein Capable of Gene Activation at Transcriptional Level," <i>Gene</i> <u>245</u> :21-29 (2000)
	DK-1	Okanami et al., "HALF-1, a bZIP-type Protein, Interacting with the Wheat Transcription Factor HBP-1a Contains a Novel Transcriptional Activation Domain," <i>Genes to Cells</i> <u>1</u> :87-99 (1996)
	DL-1	Pelling et al., "A Human Genomic Library Enriched in Transcriptionally Active Sequences (aDNA Library)," <i>Genome Res.</i> <u>10</u> :874-886 (2000)
	DM-1	Pengue et al., "Repression of Transcriptional Activity at a Distance by the Evolutionarily Conserved KRAB Domain Present in a Subfamily of Zinc Finger Proteins," <i>Nuc. Acids Res.</i> <u>22</u> (15):2908-2914 (1994)

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	DN-1	Rebar et al., "Zinc Finger Phage: Affinity Selection of Fingers with New DNA-Binding Specificities," <i>Science</i> <u>263</u> :671-673 (1994)
	DO-1	Rice et al., "Recognition of Native DNA Methylation by the <i>PvuII</i> Restriction Endonuclease," <i>Nucleic Acids Research</i> <u>28</u> (16):3143-3150 (2000)
	DP-1	Robertson et al., "DNA Methylation: Past, Present and Future Directions," <i>Carcinogenesis</i> <u>21</u> :461-467(2000)
	DQ-1	Robertson et al., "DNMT1 Forms a Complex with Rb, E2F1 and HDAC1 and Represses Transcription From E2F-Responsive Promoters," <i>Nature Genetics</i> <u>25</u> :338-342 (2000)
	DR-1	Robyr et al., "Nuclear Hormone Receptor Coregulators in Action: Diversity for Shared Tasks," <i>Molecular Endocrinology</i> <u>14</u> :329-347 (2000)
	DS-1	Rouviere-Yaniv et al., "Localization of the HU Protein on the <i>Escherichia coli</i> Nucleoid," <i>Cold Spring Harbor Symp. Quant. Biol.</i> <u>XLII</u> :439-447 (1977)
	DT-1	Sambrook et al., <i>Molecular Cloning: a Laboratory Manual, 2nd Edition</i> , Cold Spring Harbor Laboratory Press, 13.21-13.33 (1989)
	DU-1	Seipal et al., "Different Activation Domains Stimulate Transcription From Remote ('enhancer') and Proximal ('promoter') Positions," <i>EMBO J.</i> <u>11</u> (13):4961-4968 (1992)
	DV-1	Shiraishi et al., "Preferential Isolation of DNA Fragments Associated With CpG Islands," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>92</u> :4229-4233 (1995)
	DW-1	Simpson, "In vivo Methods to Analyze Chromatin Structure," <i>Current Opinions in Genetics & Development</i> <u>9</u> :225-229 (1999)
	DX-1	Solomon et al., "Formaldehyde-Mediated DNA-Protein Crosslinking: A Probe for <i>in vivo</i> Chromatin Structures," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>82</u> :6470-6474 (1985)

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	DY-1	Solomon et al., "Mapping Protein-DNA Interactions <i>In Vivo</i> with Formaldehyde: Evidence that Histone H4 is Retained on a Highly Transcribed Gene," <i>Cell</i> <u>53</u> :937-947 (1988)
	DZ-1	Sprenger-Haussels et al., "Transactivation Properties of Parsley Proline-Rich bZIP Transcription Factors," <i>The Plant Journal</i> <u>22</u> (1):1-8 (2000)
	EA-1	Tanaka et al., "3-Å Resolution Structure of a Protein with Histone-Like Properties in Prokaryotes," <i>Nature</i> <u>310</u> :376-381 (1984)
	EB-1	Tazi and Bird, "Alternative Chromatin Structure at CpG Islands," <i>Cell</i> <u>60</u> :909-920 (1990)
	EC-1	Thiesen, "Multiple Genes Encoding Zinc Finger Domains Are Expressed in Human T-Cells," <i>New Biologist</i> <u>2</u> :363-374 (1990)
	ED-1	Tian et al., "Endothelial PAS Domain Protein 1 (EPAS1), a Transcription Factor Selectively Expressed in Endothelial Cells," <i>Genes & Development</i> <u>11</u> :72-82 (1997)
	EE-1	Torchia et al., "Co-Activators and Co-Repressors in the Integration of Transcriptional Responses," <i>Curr. Opin. Cell Biol.</i> <u>10</u> :373-383 (1998)
	EF-1	Tullius et al., "Hydroxyl Radical Footprinting: A High-Resolution Method for Mapping Protein-DNA Contacts," <i>Methods in Enzymology</i> <u>155</u> :(J. Ableson & M. Simon, eds.) Academic Press, San Diego, pp. 537-558 (1987)
	EG-1	Tyler et al., "The "Dark Side" of Chromatin Remodeling: Repressive Effects on Transcription," <i>Cell</i> <u>99</u> :443-446 (1999)
	EH-1	Ulmasov et al., "Activation and Repression of Transcription by Auxin-Response Factors," <i>Proc. Natl. Acad. Sci. USA</i> <u>96</u> :5844-5849 (1999)

Examiner:

Date Considered:

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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LIST OF PATENTS AND PUBLICATIONS
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(Use several sheets if necessary)
Sheet 11 of 11

In the Application of WOLFFE et al.

Confirmation No. 1541

Serial No.: 10/083,682

Art Unit:1645

Filed: October 24, 2001

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Title: DATABASES OF REGULATORY SEQUENCES; METHODS OF MAKING AND USING SAME

Exam. Init.	Ref. Desig.	Description
	EI-1	van Steensel and Henikoff, "Identification of <i>In Vivo</i> DNA Targets of Chromatin Proteins Using Tethered Dam Methyltransferase," <i>Nature Biotechnology</i> <u>18</u> :424-428 (2000)
	EJ-1	Wellinger et al., " <i>In Vivo</i> Mapping of Nucleosomes Using Psoralen-DNA Crosslinking Primer Extension," <i>Methods in Molecular Biology</i> <u>119</u> :161-173 (1999)
	EK-1	Wines et al., "Introduction of a DNA Methyltransferase into <i>Drosophila</i> to Probe Chromatin Structure <i>in vivo</i> ," <i>Chromasoma</i> <u>104</u> :332-340 (1996)
	EL-1	Wingender et al., "TRANSFAC, TRRD and COMPEL: Towards a Federated Database System on Transcriptional Regulation," <i>Nucleic Acids Res.</i> <u>25</u> (1):265-268 (1997)
	EM-1	Witzgall et al., "The Krüppel-Associated Box-A (K RAB-A) Domain of Zinc Finger Proteins Mediates Transcriptional Repression," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>91</u> :4514-4518 (1994)
	EN-1	Wolffe et al., "Targeting Chromatin Disruption: Transcription Regulators That Acetylate Histones," <i>Cell</i> <u>84</u> :817-819 (1996)
	EO-1	Wolffe et al., "Creating Molecular Clues to Uncover Gene Function," <i>Nature Biotechnology</i> <u>18</u> (4):379-380 (2000)
	EP-1	Wu et al., "Functional Analysis of HD2 Histone Deacetylase Homologues in Arabidopsis Thaliana," <i>The Plant Journal</i> <u>22</u> (1):19-27 (2000)
	EQ-1	Xu et al., "Cytosine Methylation Targetted to Pre-Determined Sequences," <i>Nature Genetics</i> <u>17</u> (4):376-378 (1997)

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